# Spine: Patient Positioning Solutions Safety, Service, Value

**Allen** 





# Spine Surgery Patient Positioning Tailored To Your Needs



### Service You Can Count On

#### A Company You Can Trust... See page 4

Let us take care of your Allen® Advance Table with our nationwide network of service centers. As a company, we understand that our role is to provide services and equipment that are flexible enough to meet the needs of your patients, while assisting you in controlling and reducing cost.



### Premium Spine Solutions

#### Allen® Advance Table See page 8

Allen's premium solution for complex spine surgical procedures. Designed with a new safety feature to ensure that if the pin that connects the "H-Bracket" to the table base is accidentally pulled out, the patient support top will not fall to the floor. In addition, this solution offers a modern and intuitive user interface with convenience features such as central locking casters – all at a desirable cost.



### Adaptive Spine Solutions

#### Allen Spine System See page 18

An innovative OR table extension that turns your OR table into a table capable of positioning patients for complex spine surgical procedures at a fraction of the price of a stand-alone spine table. It also offers the added advantage of saving space, storing in less than 6 sq ft (.5 sq m).



### Table Attachments

See page 27

Allen offers innovative table attachments for spine surgery that are compatible with standard OR tables, Allen Advance Table, Allen Flex Frame, or Mizuho OSI Modular Table System.



### A Company You Can Trust



# Let Us Take Care Of Your Allen® Advance Table With Our Nationwide Network Of Service Centers

As a company, we understand that our role is to provide services and equipment that are flexible enough to meet the needs of your patients, while assisting you in controlling and reducing cost.



- ✓ On-site Repairs
- Over 150 Service Centers Nationwide
- ✓ Over 1500 field service employees
- ✓ Technical Support Line dedicated to Allen Advance Table
- ✓ Detailed service manual sent with every table
- ✓ Immediate response
- 1,000,000+ product deliveries and removals performed annually

On-site service/repair is only available for the Allen® Advance Table.

### Care Continuum Services

### Delivery Assist

Once your Advance Table arrives at your facility a trained and certified technician will set up your table to be ready for use at no cost to you.



### Immediate Response

With over 150 repair centers nationwide, a service technician is never too far away.

### On-site Repairs

All of our Advance Table repairs are conducted at your facility by one of our trained and certified repair technicians.



On-site service/repair is only available for the Allen  $^{\!\circ}$  Advance Table.

Upon realizing that we had a problem moving our Allen Advance Table we contacted our local Allen Sales Rep. He noticed that the table wouldn't roll due to a broken or stuck caster. He was unable to move the table as well so he immediately called Allen Medical. Allen in turn contacted Hill-Rom Service to set up a service call. A Hill-Rom Service Tech was on-site in a day and repaired what happened to be a broken caster. We were very pleased with the service provided by our Sales Rep, Allen Medical and Hill-Rom Service.

- Dave Knoblock | BioMed Tech Scripps Memorial Hospital, Encinitas, CA





### Allen® Advance Table «



### A Premium Solution For Complex Spine Surgical Procedures Designed With Improved Safety Features

The Allen Advance Table is designed with a new safety feature to ensure that if the pin that connects the "H-Bracket" to the table base is accidentally pulled out, the patient support top will not fall to the floor. In addition, this solution offers a modern and intuitive user interface with convenience features such as central locking casters — all at a desirable cost.

- Modern user interface helps the user understand the "state" that the table is currently in e.g. locked, unlocked, tilted, trend or reverse trend
- Central locking casters controlled directly from the pendant
- EZ-Roll casters help the caregiver when transporting the table around the OR
- Numbered H-Brackets help with communication between caregivers when attaching the different tops to the base
- 180° rotation capabilities
- Patient weight capacity: 600 lbs (272 kg)



• Innovative "H-Bracket" design ensures that if the pin connecting the H-Bracket to the table base is accidentally pulled, the patient support top will not fall to the floor

### Prone Positioning

The Allen® Advance Prone Positioning system is constructed using two carbon fiber rails. It offers an open frame design to allow the abdomen to hang in an unobstructed manner. In addition, the system has an innovative chest pad that is crescent shaped to help accommodate the female chest anatomy while also helping to avoid impingement of the brachial plexus. Also included are two 12" flat plates, a sling, and several choices of arm supports.





### Intuitive User Interface

Clear, concise display helps the user understand the "state" that the table is currently in e.g. locked, unlocked, tilted, trend, or reverse trend.

- Central locking casters controlled directly from the pendant
- EZ-Roll Casters help the caregiver when transporting the table around the OR
- Numbered H-Brackets help with communication between caregivers when attaching the different tops to the base



### Supine Positioning

The Allen® Advance Flat Top is a fully radiolucent carbon fiber imaging platform that can be used in a variety of procedures. It comes with the Allen Advance Flat Top Pad which is designed around the popular Astrus Elite™ pressure management surface.

- The Advance Rail Top (A-71400), the Advance Flat Top (A-71410), and the associated pad sets are fully radiolucent
- Unobstructed C-Arm and O-Arm access





### 180° Rotation: Simplified Procedure

1 Patient in supine position



2 Attach H-Brackets, prone support top, and safety straps



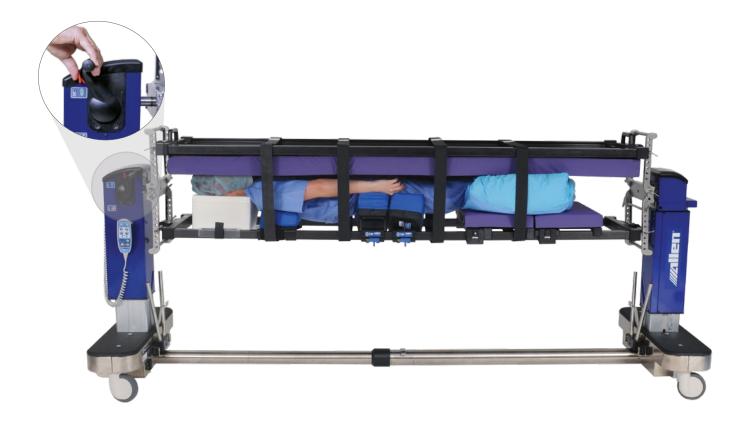
Pull handle down and "flip" patient from supine to prone

Modern user interface clearly displays when the table is in manual "flip" mode



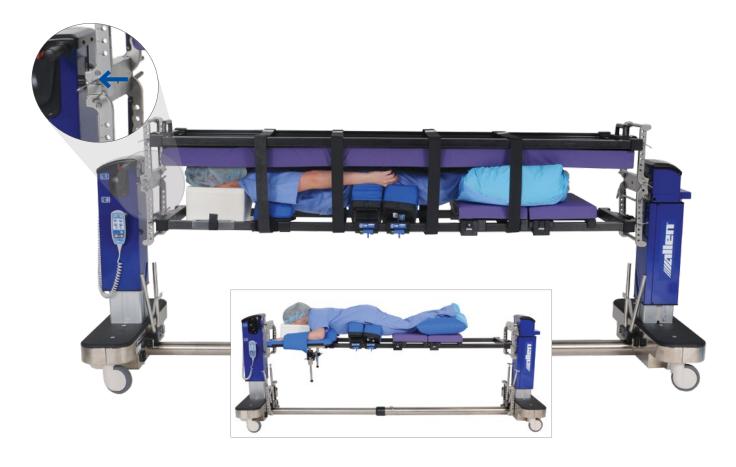






### 180° Rotation: Improved Safety

### 4 Remove flat top, H-Bracket and pin





Innovative H-Bracket design ensures that if the pin connecting the H-Bracket to the table base is accidentally pulled, the patient support top will not fall to the floor

### Advance Table Package #A-71001

The Advance Table Standard Package includes everything you need for standard prone and supine spine surgical positioning. The package also includes a convenient rolling accessory cart so you can store your tops, rails, supports, etc. all in one place. If you wish to upgrade your table for special positioning needs, we offer a Premium and a Complete Package with additional accessories included. *See page 17* 

#### What's Included



#A-71100 Advance Table 1 Included



#A-71403 Advance Pendant 1 Included



#A-71402 Advance H-Bracket 4 Included



#A-71401 Advance Pins



#A-71404 Cervical Traction Bar 1 Included



#A-71411 Advance Safety Straps 4 Included



#A-71410 Advance Flat Top 1 Included



#A-70436 Advance Flat Top Pad 1 Included



#A-71400 Advance Rail Top 1 Included



#A-71300 Advance Prone Support Set 1 Included See page 16



#A-71501\* Adjustable Accessory Rail 1 Included



#A-71502 Clamp: Adjustable Accessory Rail 1 Included



#A-71319 Articulating Arm Support 2 Included



OR

#A-71318 Articulating Arm Support Clamp 8" 2 Included



#A-71320 Articulating Arm Support Clamp 10" 2 Included



#A-70501\* Accessory Rail 6" (15.2 cm) 2 Included



#O-RSX2 Large Security Strap 2 Included



#A-71600 Advance Accessory Cart 1 Included



Power Cord (Country Specific) 1 Included



#A-70500\* Armboard Rail



#A-70615-US\* Advanced Arm Support



#A-71314 Allen Advance Pillow – Standard



#A-71313 Allen Advance Pillow – Queen

<sup>\*</sup>Specify Rail Type: US, EU, UK, JP, DEN. See catalog for international part numbers.

### Advance Prone Support Set #A-71300

### Included With All Advance Table Packages

The Advance Table Prone Support Set is a comprehensive patient support system for the prone position. Although it was developed with the Allen Advance Table, this prone support system is compatible with the Allen Flex Frame and the Mizuho OSI Modular Table System. The hip pads have been developed in several sizes to help accommodate different patient shapes and sizes. In addition, the chest, hip and thigh support pads are constructed using a patented multi-layer foam construction similar to that of the popular Allen Wingsets, which is designed to aid in reducing sheer pressures on the skin.

#### What's Included



#A-71303 Small Hip Support With Pad 2 Included



#A-71305 Medium Hip Support With Pad 2 Included



#A-71307 Large Hip Support With Pad 2 Included



#A-71309 Left Thigh Support With Pad 1 Included



#A-71311 Right Thigh Support With Pad 1 Included



#A-71301 Chest Support With Pad 1 Included



#A-71316 Head Plate 1 Included



#A-71312 Sling Support 1 Included



#A-70404 Supine Accessory Top 12" (30.5 cm) 2 Included



#A-70434 Supine Accessory Top Pad 2" (5 cm) 2 Included

# 2

#A-70862 Foam Head Blocks Case of 6 Sets Included



#A-71262 Medium Ultra Comfort Covers Case of 6 Sets Included

#### What's Required



#A-71261 Small Ultra Comfort Covers Case of 6 Sets



#A-71263 Large Ultra Comfort Covers Case of 6 Sets



#A-70863 Foam Arm Supports Case of 6 Sets



#A-70500\* Armboard Rail



#A-70615-US\* Advanced Arm Support



#A-71314 Allen Advance Pillow – Standard



#A-71313 Allen Advance Pillow – Queen

<sup>\*</sup>Specify Rail Type: US, EU, UK, JP, DEN. See catalog for international part numbers.

### Advance Premium Package Upgrade

#A-71002



#A-70700 C-Flex Head Positioning System 1 Included

Upgrade your Advance Table to the Premium Package with the addition of the C-Flex® Head Positioning System.

The C-Flex Head Positioning System can be used in all types of spine surgery including posterior cervical surgery that utilizes skull clamps with pins. The quick-connect coupler makes connecting to a skull clamp easy. Ability to "squeeze and position" supports readjustments intraoperatively. An extensive range of motion makes the C-Flex system ideal for use with extremely kyphotic patients, anterior artificial discs, and lateral procedures.

See page 33 for more information on the C-Flex Head Positioning System

### Advance Complete Package Upgrade

#A-71003



#A-70700 C-Flex Head Positioning System 1 Included

Upgrade your Advance Table to the Complete Package with the addition of both the C-Flex Head Positioning System and the Allen® Bow® Frame.

The C-Flex Head Positioning System can be used in all types of spine surgery including posterior cervical surgery that utilizes skull clamps with pins. The quick-connect coupler makes connecting to a skull clamp easy. Ability to "squeeze and position" supports readjustments intraoperatively. An extensive range of motion makes the C-Flex system ideal for use with extremely kyphotic patients, anterior artificial discs, and lateral procedures.

See page 33 for more information on the C-Flex Head Positioning System



#A-70800 Allen Bow Frame 1 Included

The Bow Frame's shape creates the desired reverse lordosis needed to open the intervertebral spaces. The Bow Frame enables the patient's abdomen to hang free during procedures. It is also radiolucent and allows for unrestricted C-arm access. The removable crank is used to adjust the amount of flex and tension in the patient supports.

See page 29 for more information on the Allen Bow Frame



**Adaptive**Spine Solutions

### Allen® Spine System «



# An Innovative Table Extension That Turns Your Existing Standard OR Table Into A Spine Table For Complex Spine Surgical Procedures

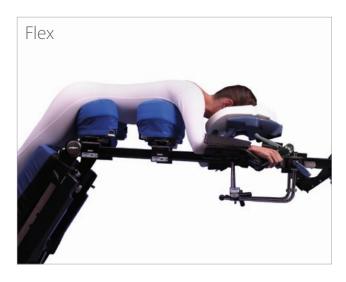
The Allen Spine System is an extension for your OR table that enables you to perform spine surgery with the positioning benefits of a stand alone spine table such as the Allen Advance Table. In addition it offers intraoperative lumbar flex and a small storage footprint. The advanced accessories adjust to fit the individual patient's anatomy.

- Intraoperative Flex: Use the power of the table to flex and reposition the patient
- Radiolucent Extension 48" x 17" (1220 mm x 430 mm): Provides excellent C-Arm and O-Arm access
- Optimized Pressure Management: Chest, hip, and head supports
- Versatile: Prone, lateral, and supine positioning
- Range of Motion: Provides 20° lateral tilt, trend, and flex powered by the OR table
- Height: 25" to 38" (635 mm 965 mm)
- Fits OR tables with outside rail width 20" 24" (510 mm 610 mm)
- Lateral Package available See page 26

- Patient Weight Capacity: 500 lbs (227 kg)
- Saves Space: Stores in less than 6 sq ft (.5 sq m) and accessories can be stored on the frame



### TLIF / PLIF



Open Posterior Aspect



Minimally Invasive Visualization









Posture Control For Fixing Rods

### Kyphoplasty / Vertebroplasty

- Relieve compression
- Access for multiple C-Arms
- Control posture reduction



### Sagittal Control

- Control access to disc space
- Decompress abdomen



- Increased C-Arm access
- Postural control without stressing implants



### Lateral: XLIF / DLIF / OLIF

- Increase and decrease flex using OR table controls
- Tilt table to align imaging

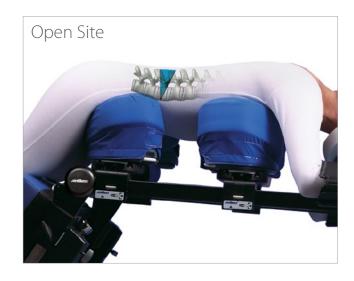
- Posture control for fusion
- Increased surgical access



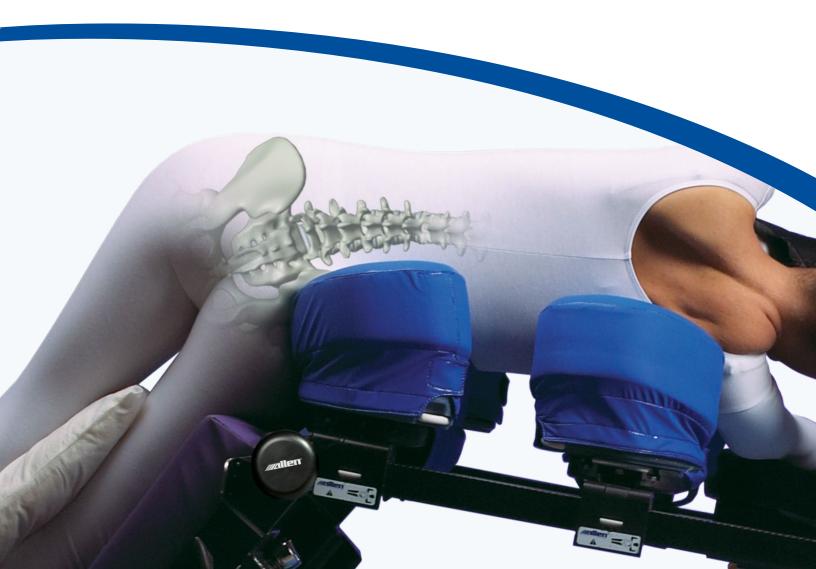
### Osteotomy

- Posture control without breaking sterile field
- Control opening and closing of osteotomy site

• Relieve pressure on vertebral body







### Quick Set-Up: 3 Easy Steps

1 Position the frame









2 Lift the frame up

3 Attach to the table



### Spine System Packages

The Allen® Spine System includes everything below. You also have the choice of an appropriate head positioner based on your surgical needs:

- Choose the C-Flex® Head Positioning System Package #A-70002 if you require an advanced head positioner with simple "squeeze and position" technology that can be used to position the head for all types of spine surgery, including posterior cervical surgeries that require skull clamps and pins.
- Choose the C-Prone Head Positioner Package #A-70000 if you require a standard head positioner that helps position the head quickly and simply for lumbar surgery only.

#### What's Included



#A-70100 Flex Frame 1 Included



#A-70610 Prone Arm Supports 2 Included



#A-70400 Supine Top Set 4 Included



#A-70435, #A-70434\* Supine Top Pads 3" (7.6cm), 2" (5cm) 4 Included



#A-70200 Standard Wingset Chest + Hip 1 Included



#A-70260 Comfort Cover Disposables Case of 5 Sets Included



#A-70310 Comfort Mask Disposables Case of 5 Included



#A-70510-US\*\* Flex Frame OR Table Clamp Set 1 Pair Included



#A-70500-US\*\* Flex Frame Armboard Rail 2 Included



#A-40022 (US)\*\* Easy Lock® Socket 2 Included



#A-70441 Prone Spinal Leg Pad



#A-70501-US\*\* Short Accessory Rail



#A-70502-US\*\* Long Accessory Rail



#A-70615-US\*\* Advanced Arm Support



#O-AMA97X1.0S Clamshell Armboard Pad 1" (2.5 cm)



#A-70270 Contour Breast Positioner

<sup>\*</sup>Specify Thickness.

<sup>\*\*</sup>Specify Rail Type: US, EUR or EU, UK, JP, DEN. See catalog for international part numbers.

### Complete Your Package

Select A Head Positioner To Complete Your Package Choice

### C-Flex® Package: #A-70002



#A-70700 C-Flex Head Positioning System 1 Included

The C-Flex Head Positioning System can be used in all types of spine surgery including posterior cervical surgery that utilizes skull clamps with pins. The quick-connect coupler makes connecting to a skull clamp easy.

See page 33 for more information on the C-Flex Head Positioning System

### C-Prone Package: #A-70000



#A-70300 C-Prone Head Positioner 1 Included

The C-Prone Head Positioner allows for vertical and rotational adjustment of the head in the prone position. It includes a fold away mirror and allows for easy airway access.

### Spine System Lateral Package #A-70230

Upgrade your Spine System by purchasing the Spine System Lateral Package. Greater degree of intraoperative FLEX for procedures such as XLIF, DLIF and OLIF. Flex the spine at more severe angles than standard OR tables and keep the spine parallel to the floor while flexed. More stability with less tape. Wedge the patient between the Allen® Wingsets. They form an adjustable, padded, V-shaped holder for the patient.

#### What's Included



#A-70257 Lateral Hip Pad 1 Included



#A-70501-US\* Short Accessory Rail 1 Included



#A-10029 Toboggan Gel Pad 15½" x 10" x¾8" (395 x 245 x 10mm) 1 Pair Included



<sup>\*</sup>Specify Rail Type: US, EU, UK, JP, DEN. See catalog for international part numbers.



Table Attachments







Skin Care Disposables



Storage Cart





Bow® Frame On OR Table



Bow Frame On Allen® Advance Table



Bow Frame On Allen Flex Frame



Bow Frame On Mizuho OSI MTS

### Allen® Bow® Frame #A-70800 (6

## Versatile - Compatible With Standard OR Tables, Allen Advance Table, Allen Flex Frame, Or Mizuho OSI Modular Table System

The Allen Bow Frame is a platform used to perform less complex spine surgeries. The Bow Frame is more versatile than the existing Wilson™ Frame, as the single device attaches to standard OR tables, Allen Advance Table, Allen Flex Frame, and the Mizuho OSI Modular Table System.

Its shape creates the desired reverse lordosis needed to open the intervertebral spaces. The Bow Frame enables the patient's abdomen to hang free during procedures. It is also radiolucent and allows for unrestricted C-arm access. The removable crank is used to adjust the amount of flex and tension in the patient supports. Every Bow Frame comes with a storage cart. Ideal for use with Laminectomy, Microdisc procedures, Disc procedures, Fusion procedures, Decompressions, and Foraminotomy.

- Fits OR tables
- Radiolucent
- Device weight: 25 lbs (11.3 kg)
- Patient supports are adjustable to fit patients of various sizes
- Patient supports adjust laterally up to 10" (25.4 cm) to relieve pressure on the patient's abdomen

- Patient weight capacity: 500 lbs (227 kg)
- · Lightweight for easy set-up
- Compact for easy storage
- Storage cart included for easy transport
- Skin Care Cover disposables are comprised of cosmetic foam

#### What's Included



#A-70801 Allen Bow Frame 1 Included



#A-70821 Crank Arm 1 Included



#A-70815 Bow Frame Cart 1 Included

#### What's Required choose One



#A-70810C Bow Frame Skin Care Covers Case of 6 Sets



#A-70810 Bow Frame Skin Care Covers Kit Case of 6 Sets



#A-70805 Bow Frame Standard Covers Kit Case of 6 Sets



#A-70862 Allen Foam Head Block Case of 6



#A-70820 Replacement Pad Set



#A-70825 Foam Head Block Stand







Works With Standard Wingsets



Proven Pressure Management



### Allen® 4-Post System #A-71201, #A-71200 (4)

#### Versatile And Easy To Use: Set Up On Your OR Table Within Minutes

The Allen 4-Post System is a lightweight, versatile platform that attaches to an OR table via short or long attachment straps and allows the surgeon to place patients in a prone or lateral spine position. Lordosis, kyphosis and a neutral position of the lumbar spine is now achievable without the use of a large and expensive specialty platform. The 4-Post System is designed to allow the patient's abdomen to hang freely, which may help reduce vena caval pressure. This also offers the ability to place an x-ray plate under the patient, as well as unrestricted C-Arm access.

Ideal for use with Laminectomies, Discectomies, Osteotomies, Fusions, and other prone and lateral procedures.

- Fits operating tables
- Radiolucent
- Weighs under 10 lbs (4.5 kg) without the Wingsets
- Patient weight capacity: 500 lbs (227 kg)

- Skin Care Cover disposables made of cosmetic foam
- Compact for storage
- · Lightweight and easy to set-up
- Easy to adjust for different size patients

#### Package Options Choose One

#A-71201 Low Height Package



#A-70202 Pediatric Wingset System Hip & Chest 1 Included

#### #A-71200 Standard Height Package



#A-70200 Standard Wingset System Hip & Chest 1 Included

#### What's Included



#A-70207 Allen 4-Post System Frame 1 Included + 4 Short Straps



#A-70260 Comfort Cover Disposables Case of 5 Sets Included



#A-70208 Long Attachment Straps 2 Included

#### What's Required



#A-70825 Foam Head Block Stand 1 Required



#A-70862 Allen Foam Head Block Case of 6



#A-70209 Replacement Short Attachment Straps



#A-70221 Pediatric Wingset Replacement Pads



#A-70220 Standard Wingset Replacement Pads



#O-PRSLH Medium Security Strap



#A-70615\* Advanced Arm Support



#A-70500\* Armboard Rail



#A-70441 Prone Spinal Leg Pad

<sup>\*</sup>Specify Rail Type: US, EUR or EU, UK, JP, DEN. See catalog for international part numbers.







Anterior Access



**Kyphotic Patients** 



### C-Flex® Head Positioning System #A-70700 «

#### Makes Head Adjustments Easy... Just Squeeze And Position

The modular system can be used to position the head during spine surgery. The quick-connect coupler makes connecting to a skull clamp easy. Ability to "squeeze and position" supports readjustments intraoperatively. An extensive range of motion makes the C-Flex system ideal for use with extremely kyphotic patients, anterior artificial discs, and lateral procedures.

- Cervical flexion / extension
- · Lumbar positioning
- Adjust vertically for kyphotic patients
- Lateral positioning
- Device weight: 20 lbs (9 kg)
- 6" (15 cm) lateral adjustment range
- 28" (71 cm) height adjustment range
- 9" (23 cm) extension adjustment range
- +/- 15° lateral tilt

- Works with Standard and Radiolucent Skull Clamps and Headrest Systems from DORO™ and Mayfield®
- Includes fold-away mirror
- Easy airway access
- Fits the Allen® Advance Table
- Fits the Allen Flex Frame
- Fits the Mizuho OSI Modular Table System
- Patient weight capacity: 500 lbs (227 kg)

#### What's Included



#A-70701 C-Flex Head Positioning System Base Unit 1 Included



#A-70310 Comfort Mask Disposables Case of 5 Included



#A-70702 C-Flex Clean Cape Disposables Case of 10 Included



#A-70710 Starburst Adaptor for Standard Mayfield or DORO 1 Included



#A-70715 Prone Mask Head Module 1 Included



#A-70720 Flat Plate Head Module 1 Included



#A-70725 Reverse Starburst Adaptor for Standard Mayfield or DORO



#A-70730 Starburst Adaptor for Radiolucent Mayfield



#A-70735 Reverse Starburst Adaptor for Radiolucent Mayfield



#A-70740 Starburst Adaptor for Radiolucent DORO



#A-70745
Reverse Starburst Adaptor for
Radiolucent DORO

### C-Flex® AP-Vantage System #A-70110, #A-70111 4

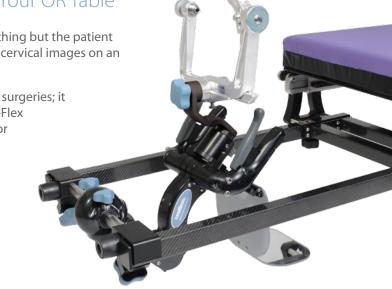
Advanced Table Imaging Capabilities For Your OR Table

The unique product design eliminates obstructions, leaving nothing but the patient in the shot. C-Flex AP-Vantage System provides for high quality cervical images on an OR table.

The system can be used for both anterior and posterior cervical surgeries; it includes an OR table adaptor (with carbon fiber rails) and the C-Flex head positioning system. All the benefits of the C-Flex system for the OR table with a variety of different head attachments.

Ideal for use with Odontoid Screws, Cervical Fusion, and Artificial Cervical Discs.

- Artifact-Free Imaging
- Works with Standard and Radiolucent Skull Clamps and Horseshoe Headrest from DORO™ and Mayfield®
- Patient Weight Capacity: 500 lbs (227 kg)



#### Package Options Choose One

#A-70110 Includes C-Flex Head Positioning System



#A-70700 C-Flex Head Positioning System 1 Included

#### #A-70111

Does Not Include C-Flex Head Positioning System

#### What's Included



#A-70115 C-Flex AP-Vantage OR Table Adaptor 1 Included



#A-70118 C-Flex 45° Starburst Adaptor 1 Included



#A-70117 C-Flex Traction Bar 1 Included



#A-70116 C-Flex AP-Vantage Leg 1 Included

#### What's Optional



#A-70702 C-Flex Clean Cape Disposables Case of 10

Hill-Rom is a leading global medical technology company with more than 7,000 employees worldwide. We partner with health care providers in more than 100 countries by focusing on patient care solutions that improve clinical and economic outcomes in five core areas: Advancing Mobility, Wound Care and Prevention, Clinical Workflow, Surgical Safety and Efficiency, and Respiratory Health. Around the world, Hill-Rom's people, products, and programs work towards one mission: Enhancing outcomes for patients and their caregivers.

#### PATENT www.hill-rom.com/patents

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Products may be comprised of new, refurbished and recycled materials. All refurbished and recycled materials meet our stringent new product specifications.

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For further information about this product or a service, please contact your local Allen representative or visit our webpage:

#### **United States**

Toll-free (800) 433-5774 Phone (978) 266-4200 Fax (978) 263-8846 allenmedicalorders@hill-rom.com Advance Table Support (978) 266-4245 Please be prepared to provide the product serial number to the support person.

#### www.allenmedical.com

